Transformers

jensen

VRD-1FF

Bringing Science To Sound

Data Sheet

Jensen

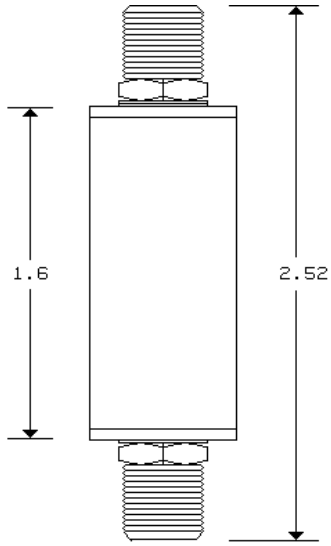
CABLE TV GROUND ISOLATOR

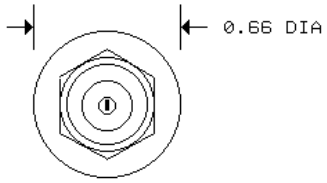
ANALOG, DIGITAL, HD and MODEM COMPATIBLE

- **Improves audio/video quality by reducing 60 Hz ground currents**
- **2 MHz to 1300 MHz bandwidth spans VHF/FM/UHF/CATV spectrum**
- **Low VSWR helps prevent digital cable channel degradation**
- **Capacitive based design minimizes broadcast channel interference**
- **Meets FCC Part 76 Regulations for CATV systems**

This capacitive based isolator provides a high impedance barrier to AC power related ground currents, preventing hum or buzz in sound systems or "hum bars" in video systems, while providing a transparent path for radio frequency video and cable modem signals.





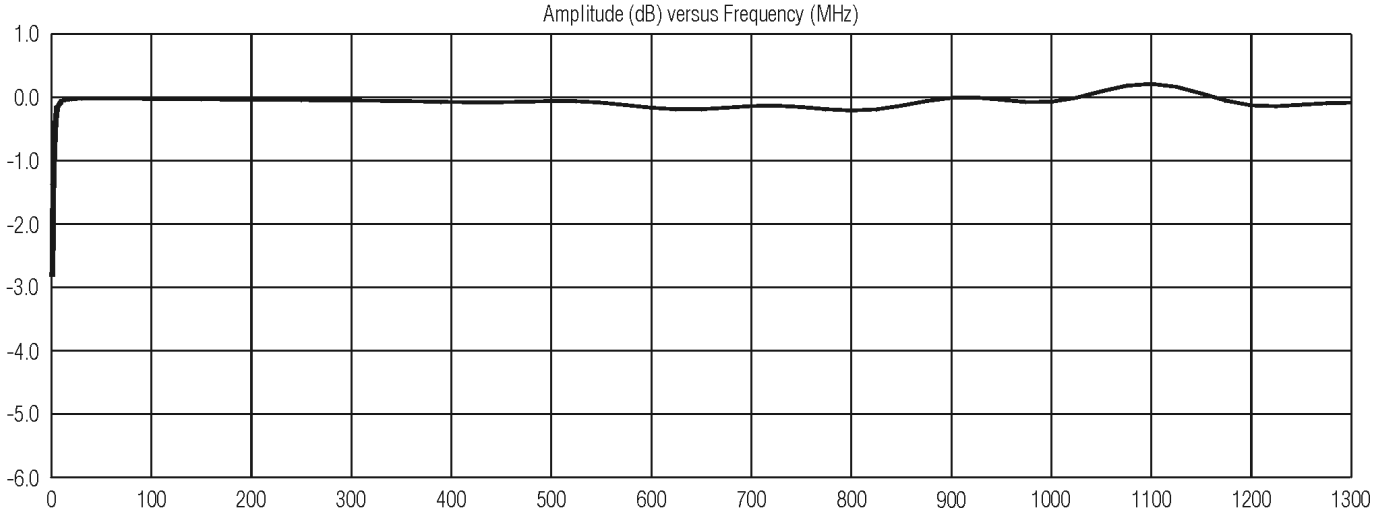


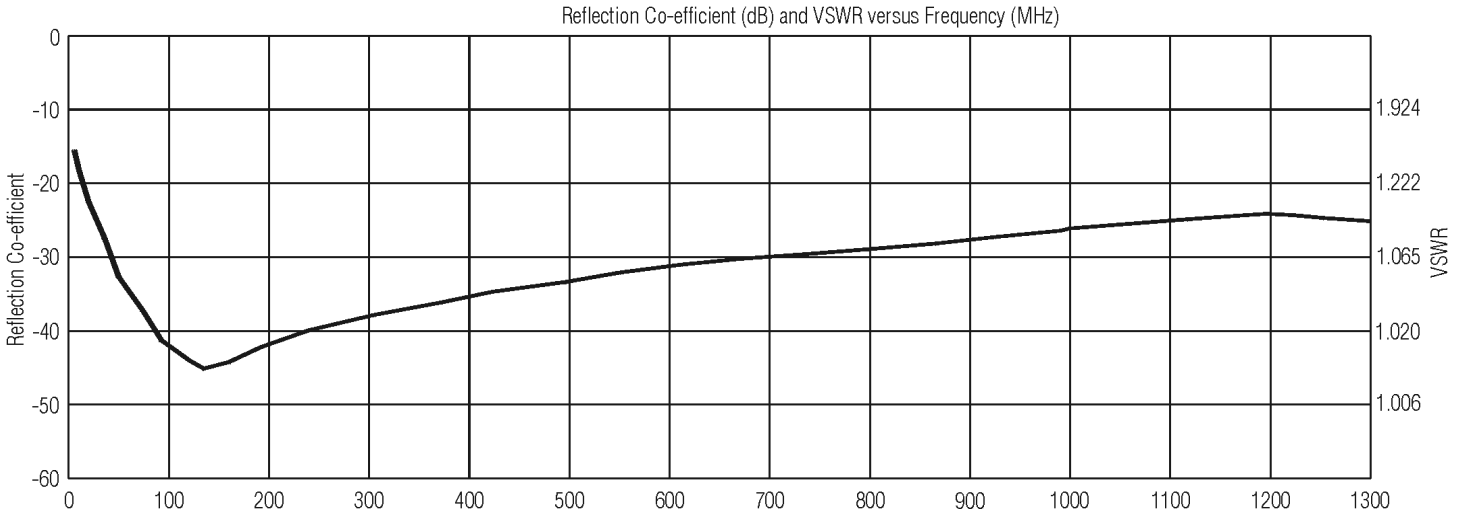
CONNECTORS ARE NICKEL PLATED BRASS
"F" TYPE WITH GOLD PLATED CONTACTS

EITHER CONNECTOR MAY BE USED
FOR INPUT OR OUTPUT

MAXIMUM INPUT TO OUTPUT
VOLTAGE IS 200 VOLTS DC

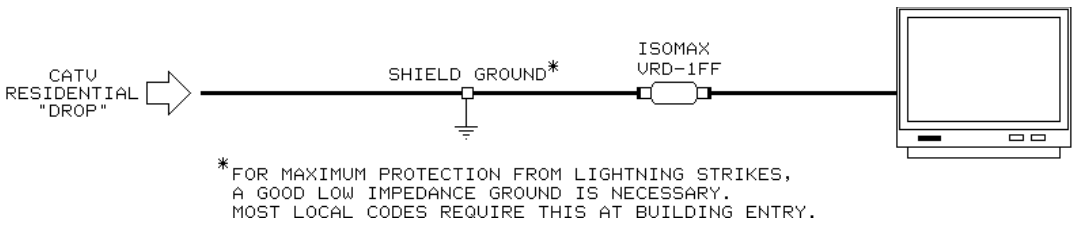
ALL DIMENSIONS IN INCHES





ISO-MAX® VRD -1FF SPECIFICATIONS (source Z = load Z = 75 Ω, signal level = –20 dBm)

PARAMETER	CONDITIONS	MINIMUM	TYPICAL	MAXIMUM
Insertion loss	5 MHz, HP 3577A Analyzer		-0.19 dB	
	50 MHz, HP 3577A Analyzer		–0.01 dB	–0.1 dB
Bandwidth	LF –3 dB re 100 MHz, HP 3577A Analyzer		1 MHz	1.2 MHz
	HF –3 dB re 100 MHz, HP 8711A Analyzer	1000 MHz	>1300 MHz	
VSWR, input or output port	50 MHz to 866 MHz, HP 8711A Analyzer		1.08 (see graph)	1.2
Externally Radiated Field at 3 Meters	Ref. level = 1.414mVrms, Frequency = 50MHz		1.1uV/meter	
	Ref. level = 1.414mVrms, Frequency = 500MHz		4.8uV/meter	
	Ref. level = 1.414mVrms, Frequency = 1GHz		6.3uV/meter	
Margin below FCC Part 76 Limits	Ref. level = 1.414mVrms, Frequency = 50MHz		25.6dB	
	Ref. level = 1.414mVrms, Frequency = 500MHz		12.5dB	
	Ref. level = 1.414mVrms, Frequency = 1GHz		10.1dB	
Isolation Impedance	output shield to input shield, 60 Hz	1 MΩ	1.3 MΩ	
Capacitance	output shield to input shield, 1 kHz		2000 pF	



Typical Application Hookup

All minimum and maximum specifications are guaranteed. Unless noted otherwise, all specifications apply at 25°C. Specifications subject to change without notice. All information herein is believed to be accurate and reliable, however no responsibility is assumed for its use nor for any infringements of patents which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of Jensen Transformers, Inc.

IMPORTANT NOTE: THIS PRODUCT IS NOT INTENDED FOR USE IN CIRCUMSTANCES WHERE THE DC OR PEAK AC VOLTAGE BETWEEN INPUT AND OUTPUT CONNECTIONS EXCEEDS 34 VOLTS OR WHERE ITS FAILURE COULD CAUSE INJURY OR DEATH.

JENSEN TRANSFORMERS, INC., 7135 Hayvenhurst Avenue, Van Nuys, CA 91406-3807, USA
(818) 374-5857 • FAX (818) 374-5856 • www.jensen-transformers.com

11/03